


## ABSTRACT OF THE DISCLOSURE

Knitwear modeling is disclosed. A macrostructure corresponding to a three-dimensional object is generated, based on a stitch pattern and optionally a color pattern. Yarn microstructure is generated and applied to the macrostructure to yield a knitwear  
5 model. The stitch positions of the macrostructure can be perturbed to achieve stitch position irregularities. The fluffiness of the yarn microstructure can be controlled. In an alternative embodiment, a two-dimensional knitwear texture is generated, which can then be mapped to a three-dimensional object to yield a knitwear model.

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Signature of Michael Dryja

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